BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Providing and laying cobble stone walking track and children play equipments in vishwanagar and Improvements to Vivekananda park in ward No.03, Attur

Estimation Cost:170.00 Lakhs

DETAILED COST ESTIMATE

Sl No	Description of work	Unit	Sides	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs
					m	m	m			
1	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No.4.3 of PW,P&IWTD SR2018-19)									
	Floor area	Cum								
	Entrance Steps		2	2	3.00	4.00	0.10	4.80		
			2	1	0.90	0.75	0.10	0.14		
			2	1	0.90	0.50	0.10	0.09		
			2	1	0.90	0.25	0.10	0.05		
	Deduction									
	Deduction of Wall									
			2	3	3.00	0.20	0.10	0.36		
			2	2	4.00	0.20	0.10	0.32		
			2	1	1.50	0.20	0.10	0.06		
	Security Room									
			1	1	4.75	3.00	0.10	1.43		
			1	1	1.50	1.20	0.10	0.18		
								7.42		
	Basic Rate		5102.00				Say	**7.42**	5510.16	**40,858.00**
	Area Weightage @ 8%		408.16							
	Total		**5510.16**							
2	Dismantling plastering and removing the debris with a lead upto 200m. (P.No.270, I.No. 37.50 of PWD SR 2018-19)									
	Inner Wall	Sqm								
			2	3	3.00		3.00	54.00		
			2	2	4.00		3.00	48.00		
			2	1	1.50		3.00	9.00		
	Deduction									
	D1									
	V		2	-1	0.90		2.10	-3.78		
			2	-4	0.60		0.60	-2.88		
	Outer Wall									
			2	3	3.00		3.00	54.00		
			2	2	4.00		3.00	48.00		
			2	1	1.50		3.00	9.00		
	Deduction									
	D1									
	V		2	-1	0.90		2.10	-3.78		
			2	-4	0.60		0.60	-2.88		
	Security Room									
			1	2	4.75		3.00	28.50		
			1	2	3.00		3.00	18.00		
			1	2	1.50		3.00	9.00		
			1	2	1.20		3.00	7.20		
	Deduction									
	D		1	-1	1.20		2.10	-2.52		
	D1		1	-1	0.90		2.10	-1.89		
	W		1	-1	1.20		1.50	-1.80		
	V		1	-1	0.60		0.60	-0.36		
								264.81		
	Basic Rate		37.00				Say	**265.00**	39.96	**10,589.00**
	Area Weightage @ 8%		2.96							
	Total		**39.96**							
3	KSRB15-3.7 : Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.No.116, I.No.15.15 of PW, P&IWTD SR2018-19)									
	External Plastering	Sqm								
	Outer Wall									
			2	3	3.00		3.00	54.00		
			2	2	4.00		3.00	48.00		
			2	1	1.50		3.00	9.00		
	Deduction									
	D1									
	V		2	-1	0.90		2.10	-3.78		
			2	-4	0.60		0.60	-2.88		
	Security Room									
			1	1	4.75		3.00	14.25		
			1	1	3.00		3.00	9.00		
			1	1	1.50		3.00	4.50		
			1	1	1.20		3.00	3.60		
	Deduction									
	D		1	-1	1.20		2.10	-2.52		
	D1		1	-1	0.90		2.10	-1.89		
	W		1	-1	1.20		1.50	-1.80		

	V		1	-1	0.60		0.60	-0.36		
								129.12		
							Total Qty	**129.12**	298.08	**38,488.00**
	Basic Rate		276.00							
	Total		276.00							
	Area Weightage @ 8%		22.08							
	Total		298.08							
4	KSRB 15-3.2 Providing 12mm thick cement plaster in single coat with cement mortar 1:4, (with lime rendering) to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.No 115 it no.15.10 of PW, P&IWTD SR 2018-19)									
	Inside Plastering	Sqm								
	Ground Floor									
	Inner Wall									
			2	3	3.00		3.00	54.00		
			2	2	4.00		3.00	48.00		
			2	1	1.50		3.00	9.00		
	Deduction									
	D1		2	-1	0.90		2.10	-3.78		
	V		2	-4	0.60		0.60	-2.88		
	Security Room									
			1	1	4.75		3.00	14.25		
			1	1	3.00		3.00	9.00		
			1	1	1.50		3.00	4.50		
			1	1	1.20		3.00	3.60		
	Deduction									
	D		1	-1	1.20		2.10	-2.52		
	D1		1	-1	0.90		2.10	-1.89		
	W		1	-1	1.20		1.50	-1.80		
	V		1	-1	0.60		0.60	-0.36		
							Total Qty	**129.12**	247.32	**31,934.00**
	Basic Rate		204.00							
	Lime rendering Rate		25.00							
	Total		229.00							
	Area Weightage @ 8%		18.32							
	Total		247.32							
5	KSRB 15-3.14: Providing 12mm thick cement plaster in single coat with **cement mortar 1:4 (with lime rendering)** to **ceiling** inclunding & rounded off corners wherever required smooth rendering Providing & removing scaffolding, including cost of materials, labour curing complete as per specification (P.No.116, I.No.15.22 of PW, P&IWTD SR 2018-19)									
	Ceiling Plastering	Sqm								
	Toilet Floor area		2	1	3.00	2.50	--	15.00		
			2	2	1.50	1.50	--	9.00		
	Security Room									
			1	1	4.75	3.00	--	14.25		
			1	1	1.50	1.20	--	1.80		
							Total Qty	**40.05**	270.00	**10,814.00**
	Basic Rate		225.00							
	Lime rendering Rate		25.00							
	Total		250.00							
	Area Weightage @ 8%		20.00							
	Total		270.00							
6	KSRB15-5.2 : Providing rough cement plastering 15mm thick in single coat with cement mortar 1:6, to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(P.No. 117, I.No.15.31 of PW, P&IWTD SR 2018-19)									
	Dadooing (Skirting) Plastering	Sqm								
	Toilet Floor area		2	1	11.00		0.10	2.20		
			2	2	6.00		0.10	2.40		
	Dadooing (Skirting)									
	Security Room		1	1	15.50		0.10	1.55		
			1	1	5.40		0.10	0.54		
	Deduction									
	D1			-1	0.90		0.10	-0.09		
	Deduction									
	D			-1	1.20		0.10	-0.12		
	D1			-1	0.90		0.10	-0.09		
							Total Qty	**6.39**	207.36	**1,325.00**
	Basic Rate		192.00							
	Area Weightage @ 8%		15.36							
	Total		**207.36**							
7	Providing and fixing Vitrified glazed tiles of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, including cost of all mateirals, mortar, labour, etc., Complete as per specification.									
	Dadooing (Skirting)	Sqm								
	Flooring Tiles									
	Toilet Floor area		2	1	3.00	2.50	--	15.00		
			2	2	1.50	1.50	--	9.00		
	Security Room									
			1	1	4.75	3.00	--	14.25		

			1	1	1.50	1.20				
	Skirting									
	Dadooing (Skurting)									
			2	1	11.00		0.10	2.20		
			2	2	6.00		0.10	2.40		
	Dadooing (Skirting)									
	Security Room		1	1	15.50		0.10	1.55		
			1	1	5.40		0.10	0.54		
	Deduction									
	D1			-1	0.90		0.10	-0.09		
	Deduction									
	D			-1	1.20		0.10	-0.12		
	D1			-1	0.90		0.10	-0.09		
	Tiles for Steps									
	Thread of Steps									
			2	1	0.90		0.30	0.54		
			2	1	0.90		0.30	0.54		
			2	1	0.90		0.30	0.54		
	Riser of Steps									
			2	1	0.90		0.15	0.27		
			2	1	0.90		0.15	0.27		
			2	1	0.90		0.15	0.27		
							Total Qty	**48.87**	972.00	**47,502.00**
	Issue Rate									
	Basic Rate Rs.=		900.00							
	Area Weightage @ 8%		72.00							
	Total Rate in Rs.=		**972.00**							
8	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. - for Ceramic Tiles of size 15x15cms 6mm thick (P No 107, I No 14.36.1)									
	Tiles for Toilet Wall	Sqm								
			2.00	1.00	11.00		2.10	46.20		
			2.00	2.00	6.00		2.10	50.40		
	Security Room									
			1	1	5.40		2.10	11.34		
	Deduction									
	D1		2.00	-1.00	0.90		2.10	-3.78		
	D1		1	-1	0.90		2.10	-1.89		
							Total Qty	102.27	1213.92	**124,148.00**
	Basic Rate Rs.=		1124.00							
	Area Weightage @ 8%		89.92							
	Total Rate in Rs.=		**1213.92**							
9	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12. (P.No. 34, I.No. 7.9 of PWD SR 2018-19)									
	Ventileter for Toilet	Kgs								
	V		2	4	0.60		0.60	2.88		
	Security Room		1	1	0.60		0.60	0.36		
								68.04		
	Consider 21 Kg/ Sqm							**68.04**	**102.60**	**6,981.00**
	Basic Rate Rs.=		95.00							
	Area Weightage @ 8%		7.60							
	Total Rate in Rs.=		**102.60**							
10	KSRB 9-27.3 : Fixing of ventilator frame in an existing opening including embeeding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour charges, complete as per specifications. (P.No. 60, I.No. 9.82 of PWD SR 2018-19)									
	Ventileter for Toilet	Nos								
	V		2	4				8.00		
	Security Room		1	1				1.00		
								9.00	**854.28**	**7,689.00**
	Basic Rate Rs.=		791.00							
	Area Weightage @ 8%		63.28							
	Total Rate in Rs.=		**854.28**							
11	SOLID PVC DOOR FRAME Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge. (P.No.60, I.No.9.84 of PW, P&IWTD SR 2018-19)									
	Toilet	Sqm								
	D1		2.00	1.00	0.90		2.10	**3.78**		

			1.00	1.00	0.90		2.10	1.89		
							Total Qty	**5.67**	505.44	2,866.00
	Basic Rate		**468.00**							
	Area Weightage @ 8%		37.44							
	Total		505.44							
12	SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm fro styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges. (P.No.60, I.No.9.83 of PW, P&IWTD SR 2018-19)										
		Sqm								
	Ground Floor									
	Toilet									
	D1		2.00	1.00	0.90		2.10	**3.78**		
	D1		2.00	1.00	0.90		2.10	**3.78**		
							Total Qty	**7.56**	2999.16	**22,674.00**
	Basic Rate		**2777.00**							
	Area Weightage @ 8%		222.16							
	Total		2999.16							
13	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. (P.No.120, I.No.15.53.2 of PW, P&IWTD SR2018-19)									
		Sqm								
	Qty is same as external plastering						**Total Qty**	**129.12**	**110.16**	**14,224.00**
	Basic Rate		102.00							
	Area Weight age @ 8%		8.16							
	Total		**110.16**							
14	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.(P.No.119, I.No.15.49.1of PW, P&IWTD SR 2018-19)									
		Sqm								
	Qty is as internal Plastering						**Total Qty**	**129.12**	**118.80**	**15,339.00**
	Basic Rate		110.00							
	Area Weight age @ 8%		8.80							
	Total		**118.80**							
15	KSRB 15-17.4 : Applying priming coat over new wood surface and / or wood based surface, after brushing with ready mix enamel priming paint including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications . (P.No.121, I.No.15.58 of PW, P&IWTD SR 2018-19)									
	Painting for Doors	Sqm								
	Toilet Door Painting									
	D1		1.00	1.00	0.90		2.10	1.89		
	D		1.00	1.00	1.20		2.10	2.52		
							Total Qty	**4.41**	**54.00**	**238.00**
	Basic Rate		50.00							
	Area Weight age @ 8%		4.00							
	Total		**54.00**							
16	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. (Page No. 123 Item No. 15.74 of SR 2018-19).									
	Painting of Ventilater	Sqm								
	V		2	4	0.60		0.60	2.88		
	V		1	2	0.60		0.60	0.72		
	W		1	1	1.20		1.50	1.80		
							Total Qty	5.40	102.60	**554.00**
	Basic Rate		95.00							
	Area Weight age @ 8%		7.60							
	Total		**102.60**							
17	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.6 of PW, P&IWTD SR 2018-19)									
	Toilet Roof Area	Cum								
	For Screed Concrete									
			2.00	1.00	3.00	4.00	0.075	1.80		
	Security Room									
			1	1	4.75	3.00	0.075	1.07		

			1	1	1.50	1.20	0.075			
							Total Qty	3.00	5855.76	17,589.00
	Basic Rate		5422.00							
	Area Weight age @ 8%		433.76							
	Total		**5855.76**							
18	KSRB 10-3 : Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of admixed with proprietary water proofing compound to required slope and treating cement mortar 1:5 similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications. (P.No.68 I.No.10.2 of PW, P&IWTD SR 2018-19)									
	Toilet Roof Area	Sqm								
			2.00	1.00	3.00	4.00		24.00		
	Security Room									
			1	1	4.75	3.00		14.25		
			1	1	1.50	1.20		1.80		
								40.05	1073.52	**42,994.00**
	Issue Rate									
	Basic Rate Rs.=		994.00							
	Area Weightage @ 8%		79.52							
	Total Rate in Rs.=		**1073.52**							
19	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes. (pg no 99 I.No. 13.86.2 of PWD SR 2018-19)									
		Rmt								
	For Pipe connection									
			2.00	1.00	20.00			40.00		
	Security Room		1.00	1.00	30.00			30.00		
								70.00	253.80	**17,766.00**
	Basic Rate Rs.=		235.00							
	Area Weightage @ 8%		18.80							
	Total Rate in Rs.=		**253.80**							
20	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 32 mm nominal OD pipes. (pg no 99 I.No. 13.86.4 of PWD SR 2018-19)									
	For Pipe connection	Rmt								
			2.00	1.00	10.00			20.00		
								20.00	403.92	**8,078.00**
	Basic Rate Rs.=		374.00							
	Area Weightage @ 8%		29.92							
	Total Rate in Rs.=		**403.92**							
21	KSRB13-6.3-2 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3 (pg no 93 I.No. 13.33 of PWD SR 2018-19)									
	Gate Valve	No's								
			2.00	2.00	1.00			4.00		
	Security Room		1.00	1.00	1.00			1.00		
								5.00	362.88	**1,814.00**
	Basic Rate Rs.=		336.00							
	Area Weightage @ 8%		26.88							
	Total Rate in Rs.=		**362.88**							
22	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (I.No. 12.5 of PWD SR 2018-19)									
	Gate Valve	Each								
			2.00	1.00	1.00			2.00		
								2.00	5352.48	**10,705.00**
	Basic Rate Rs.=		4956.00							
	Area Weightage @ 8%		396.48							
	Total Rate in Rs.=		**5352.48**							

23	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (page no 82 I.No. 12.23 of PWD SR 2018-19)											
	Wash Basin	Unit										
			2.00	1.00	1.00				2.00			
	Security Room		1.00	1.00	1.00				1.00			
									3.00	4327.56		**12,983.00**
	Basic Rate Rs.=		4007.00									
	Area Weightage @ 8%		320.56									
	Total Rate in Rs.=		**4327.56**									
24	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (Page no 79 I.No.12.2 of PWD SR 2018-19)											
	Water Closet Orissa Type (Indian)	Unit										
			2.00	2.00	1.00				4.00			
			1.00	1.00	1.00				1.00			
									5.00	4561.92		**22,810.00**
	Basic Rate Rs.=		4224.00									
	Area Weightage @ 8%		337.92									
	Total Rate in Rs.=		**4561.92**									
25	KSRB13-6.1-2 : Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3. (page no 93 I.No. 13.24 of CSR 2018-19)											
	Taps	Each										
	Toilets											
	Wash Basin		2.00	4.00	1.00				8.00			
	Security Room		2.00	1.00	1.00				2.00			
			1.00	1.00	2.00				2.00			
									12.00	186.84		**2,242.00**
	Basic Rate Rs.=		173.00									
	Area Weightage @ 8%		13.84									
	Total Rate in Rs.=		**186.84**									
26	KSRB 11-7.1 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (page no 80 I.No. 12.7 of CSR 2018-19)											
	Urinals with Taps	Unit										
	Urinals											
			1.00	3.00	1.00				3.00			
									3.00	3317.76		**9,953.00**
	Basic Rate Rs.=		3072.00									
	Area Weightage @ 8%		245.76									
	Total Rate in Rs.=		**3317.76**									
27	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms (page no 90 I.No. 12.113.1 of CSR 2018-19)											
	Nahani trap	Each										
			2.00	2.00	1.00				4.00			
	Security Room		1.00	2.00	1.00				2.00			
									6.00	270.00		**1,620.00**
	Basic Rate Rs.=		250.00									
	Area Weightage @ 8%		20.00									
	Total Rate in Rs.=		**270.00**									
28	KSRB 11-15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications. (I.No. 12.41 of PWD SR 2018-19)											
	Rectangular shape Mirror	Each										
			2.00	1.00	1.00				2.00			
	Security Room		1.00	1.00	1.00				1.00			
									3.00	1274.40		**3,823.00**
	Basic Rate Rs.=		1180.00									
	Area Weightage @ 8%		94.40									
	Total Rate in Rs.=		**1274.40**									
	PARK IMPROVEMENT WORK											
29	KSRRB 300-1. Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. (P.No143 of I.No.19.1 in PW,P&IWTD SR 2018-19)											
	Vivekananda Park	Cum										
	East Side		1	1	130.00	0.65	0.95		80.28			
	South Side		1	1	140.00	0.65	0.95		86.45			
	West Side		1	1	145.00	0.65	0.95		89.54			
	Earth work for Chain Link Fencing											
	South Side											
	Ground Fencing		1	37	0.50	0.50	0.65		6.01			
			1	40	0.50	0.50	0.65		6.50			

	From Ground end to South Grill		2	23	0.50	0.50	0.65	7.48		
	Childern Play Ground		2	15	0.50	0.50	0.65	4.88		
	At Open Theater									
	SSM For Chain Link Fencing									
	Around Basket Ball Ground.		1	1	95.00	0.65	0.85	52.49		
	Basket Ball Ground and Tensile Roofing side		1	1	75.00	0.65	0.85	41.44		
	SSM Culvert in Park		1	1	15.00	2.00	1.05	31.50		
	Garbage Bin		1	1	30.00	0.65	0.60	11.70		
							Total	**423.13**	**211.79**	**89,613.00**
	Basic rate		130.00							
	Loading and unloading with 5km lead= 57+2.0x1.28x5 = 69.80		69.80							
	Area Weightage 6%		11.99							
	Total		211.79							
30	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 (P.No.222, I.No.27.18 of PW,P&IWTD S.R 2018-19)									
	Bed Concrete	Cum								
	Vivekananda Park									
	East Side			1	130.00	0.65	0.15	12.68		
	South Side			1	140.00	0.65	0.15	13.65		
	West Side			1	145.00	0.65	0.15	14.14		
	Earth work for Chain Link Fencing									
	South Side		1	37	0.50	0.50	0.15	1.39		
	Ground Fencing		1	40	0.50	0.50	0.15	1.50		
	From Ground end to South Grill		2	15	0.50	0.50	0.15	1.13		
	Childern Play Ground		2	23	0.50	0.50	0.15	1.73		
	At Open Theater		2	15	0.50	0.50	0.15	1.13		
	SSM For Chain Link Fencing									
	Around Basket Ball Ground.		1	1	95.00	0.65	0.15	9.26		
	Basket Ball Ground and Tensile Roofing side		1	1	75.00	0.65	0.15	7.31		
	SSM Culvert in Park			1	15.00	2.00	0.15	4.50		
	Garbage Bin			1	30.00	0.65	0.15	2.93		
	For Floor area			1	10.00	5.00	0.15	7.50		
							Total	**78.83**	5421.90	**427,381.00**
	Basic Rate		5115.00							
	Area Weightage @ 6%		306.90							
	Total		**5421.90**							
31	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13.cement mortar 1:6 (using available stones) (P.No.255, I.No.34.8.2 of PW, P&IWTD S.R 2018-19)									
	Vivekananda Park	Cum								
	East Side			1	130.00	0.45	0.80	46.80		
	South Side			1	140.00	0.45	0.80	50.40		
	West Side			1	145.00	0.45	0.80	52.20		
	Vidhanasaudha Grill Posts			-138	0.45	0.45	0.40	-11.18		
	SSM For Chain Link Fencing									
	Around Basket Ball Ground.			1	95.00	0.45	0.70	29.93		
	Basket Ball Ground and Tensile Roofing side			1	75.00	0.45	0.70	23.63		
	Deduction									
				-32	0.45	0.45	0.45	-2.92		
				-25	0.45	0.45	0.45	-2.28		
	SSM Culvert in Park			2	15.00	0.45	0.90	12.15		
	Garbage Bin			1	30.00	0.45	0.45	6.08		
							Say	**204.80**	4871.76	**997,750.00**
	Basic Rate		4596.00							
	Area Weightage @ 6%		275.76							
	Total		4871.76							
32	KSRB 15.1.3 – do – Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. ((Page No. 115, Item No. - 15.3 of PW;P&IWTD S.R 2018-19)									-
	Vivekananda Park	Sqm								
	East Side			1	130.00		0.80	104.00		
	South Side			1	140.00		0.80	112.00		
	West Side			1	145.00		0.80	116.00		
	Vidhanasaudha Grill Posts			-138	0.45		0.40	-24.84		
	SSM For Chain Link Fencing									
	Around Basket Ball Ground.			1	95.00		0.70	66.50		
	Basket Ball Ground and Tensile Roofing side			1	75.00		0.70	52.50		

	Deduction									
				-32	0.45		0.45	-6.48		
				-25	0.45		0.45	-5.06		
	SSM Culvert in Park			2	15.00		0.90	27.00		
	Garbage Bin			1	30.00		0.45	13.50		
								455.12	150.52	**68,504.00**
	Basic Rate		142.00							
	Area Weightage @ 6%		8.52							
	Total		150.52							
33	KSRB 5-11 : Providing and constructing load bearing wall with having block density not less than 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials labour charegs, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 .-do- solid concrete blocks of size 400x150x200 mm (Page No.27. litem no.5.27.2 of KPWD S.R Bangalore Circle 2018-19)										
	Garbage Bin	Sqm		1	30.00		1.20	36.00		
							Total Qty	**36.00**	1010.18	**36,366.00**
	Basic Rate		953.00							
	Area Weightage @ 6%		57.18							
	Total		**1010.18**							
34	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications.Specification No. KBS 4.1, 4.2(P.No 255, I.No.34.11 of PW,P&IWTD S.R 2018-19)									
	Coping concrete	Cum								
	Vivekananda Park									
	East Side			1	130.00	0.45	0.10	5.85		
	South Side			1	140.00	0.45	0.10	6.30		
	West Side			1	145.00	0.45	0.10	6.53		
	Vidhanasaudha Grill Posts			-138	0.45	0.45	0.10	-2.79		
	SSM For Chain Link Fencing									
	Around Basket Ball Ground.			1	95.00	0.45	0.10	4.28		
	Basket Ball Ground and Tensile Roofing side			1	75.00	0.45	0.10	3.38		
	Deduction									
				-32	0.45	0.45	0.10	-0.65		
				-25	0.45	0.45	0.10	-0.51		
	SSM Culvert in Park			2	15.00	0.45	0.10	1.35		
	Garbage Bin									
	Coping Concrete			1	30.00	0.45	0.10	1.35		
	Garbage Bin									
	Floor Area			1	30.00	0.15	0.10	0.45		
	Concrete for Electric Pole			31	0.60	0.60	0.45	5.02		
							Total Qty	**30.55**	5599.98	**171,070.00**
	Basic Rate		5283.00							
	Area Weightage @ 6%		316.98							
	Total		**5599.98**							
35	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge									
	250mm Precast Slab	Sqm								
	SSM Culvert in Park		1	1	15.00	1.80		27.00		
							Total Qty	**27.00**	5418.00	**146,286.00**
	Data Rate		5418.00							
36	KSRB 4-6.1 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2(P.No.16, I.No.4.28 of PW, P&IWTD SR2018-19)									
	Vivekananda Park	Sqm								
	Vidhanasaudha Grill Posts		1.00	138	0.90		0.40	49.68		
	Earth work for Chain Link Fencing									
	South Side		1.00	37	1.60		0.65	38.48		
	Ground Fencing		1.00	40	1.60		0.65	41.60		
	From Ground end to South Grill		2.00	15	1.60		0.65	31.20		
	Childern Play Ground		2.00	23	1.60		0.65	47.84		
	At Open Theater		2.00	15	1.60		0.65	31.20		
	Around Basket Ball Ground.		1.00	32	1.80		0.50	28.80		
	Basket Ball Ground and Tensile Roofing side		1.00	25	1.80		0.50	22.50		
								291.30	273.48	**79,665.00**
	Basic Rate		258.00							
	Area Weightage @ 6%		15.48							
	Total		273.48							

37	Providing and laying in position plain/Reinforced cement concrete M20 for sub structural superstructural works, with cement @ 320 kgs, 20 mm & down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregates @ 0.46 cum machine mixed with super plasticisers @ 3 lts confirming to IS 9103-2008,concrete laid in layers, well compacted and providing weep holes wherever necessary. with necessary scaffolding, form work etc., including cost of labour, HOM curing etc., complete.(P.No.257, I.No.34.17 of PW, P&IWTD SR2018-19)									
	Vivekananda Park	Cum								
	M20 Concrete for Post									
	Vidhanasaudha Grill Posts		1	138	0.45	0.45	0.40	11.18		
	Earth work for Chain Link Fencing									
	South Side		1	37	0.40	0.40	0.50	2.96		
	Ground Fencing		1	40	0.40	0.40	0.50	3.20		
	From Ground end to South Grill		2	15	0.40	0.40	0.50	2.40		
	Childern Play Ground		2	23	0.40	0.40	0.50	3.68		
	At Open Theater		2	15	0.40	0.40	0.50	2.40		
	Around Basket Ball Ground.		1	32	0.45	0.45	0.50	3.24		
	Basket Ball Ground and Tensile Roofing side		1	25	0.45	0.45	0.50	2.53		
								31.59	5277.74	**166,720.00**
	Basic Rate		4979.00							
	Area Weightage @ 6%		298.74							
	Total		**5277.74**							
38	Fabricating, providing and erecting in position of MS Hot Dip Galvanized Sq. Hallow Poles of 132 x 132 Heavy gauge of length 3000mm with MS. Hot dip galvanized grill work as per approved design and drawing of chief architect. Using 12x75mm galvanized flat for alround frame and 20mm x 20mm galvanized-forged design with square for for vertical al 150mm C/C as shown in the drawing including providing forged ornamental arrow head in top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery and incidental charges for the successful completion of the work as per the direction Engineer-in-charge of the work.									
	Vivekananda Park	**Sqm**								
	East Side			1	130.00	1.60		208.00		
	South Side			1	140.00	1.60		224.00		
	West Side			1	145.00	1.60		232.00		
								664.00	9144.14	**6,071,709.00**
	Data Rate		9144.14							
39	Fabricating, providing and erecting in position Hot dip galvanized Gate. Using 72 x 72 x 4.8mm Sq. G I Pipe Frame with top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanized sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot do galvanized forged ornamental design in between rods and heads at top, middle and bottom. Intermediate supports of 75x12mm and 50X6mm arch bent to hot dip galvanized flats. the work is inclusive of throughing GI, flat GI Sqm. rods, placing, welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is inclusive of all materials Like G I Sq. GI Pipe, GI Forged designs etc., heavy duty hinges are made out of 75mm sold sq. block assembled with 20mm du bearing in three places for each flop. Heavy duty locking arrangement of low places including cost of labour, painting, erection charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineering charge of the work									
	Vivekananda Park	Sqm								
	East Side Gate			1	1.50		2.10	3.15		
								3.15	12475.03	**39,296.00**
	Data Rate		12475.03							
40	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint (P.No.266 I.No.37.3 of PW,P&IWTD SR of 2018-19)									
	Earth work for Chain Link Fencing	Sqm								
	South Side			1	110.00		0.90	99.00		
	Ground Fencing			1	120.00		0.90	108.00		
	From Ground end to South Grill			2	45.00		0.90	81.00		
	Childern Play Ground			2	70.00		0.90	126.00		
	At Open Theater			2	45.00		0.90	81.00		
	Around Basket Ball Ground.			1	95.00		3.50	332.50		
	Basket Ball Ground and Tensile Roofing side			1	75.00		3.50	262.50		
								1090.00	757.90	**826,111.00**
	Basic Rate		715.00							
	Area Weightage @ 6%		42.90							
	Total		**757.90**							

41	Supplying and fixing M.S. Rectangular poles made out ... fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. ... materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (P.No.266 I.No.37.2 of PW,P&IWTD SR of 2018-19)										
	Earth work for Chain Link Fencing	m									
	South Side		1	37			0.90	33.30			
	Ground Fencing		1	40			0.90	36.00			
	From Ground end to South Grill		2	15			0.90	27.00			
	Childern Play Ground		2	23			0.90	41.40			
	At Open Theater		2	15			0.90	27.00			
	SSM For Chain Link Fencing										
	Around Basket Ball Ground.		1	95			3.50	332.50			
	Basket Ball Ground and Tensile Roofing side		1	75			3.50	262.50			
								759.70	910.54	**691,737.00**	
	Basic Rate		859.00								
	Area Weightage @ 6%		51.54								
	Total		**910.54**								
42	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complate as per specifications.(P 123 I.15.74 PW,P & IWTD PWD SR - 2018-19)										
	Painting of Posts	Sqm									
	Vivekananda Park		1	138	0.60		2.00	165.60			
	Vidhanasaudha Grill Posts		1	1	1.50		2.10	3.15			
	East Side Gate							**168.75**	100.70	**16,993.00**	
	Basic Rate		95.00								
	Area Weightage @ 6%		5.70								
	Total		**100.70**								
43	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. (P.No.266 I.No.37.4 of PW,P&IWTD SR of 2018-19)										
	Chain Link Fancing horizontal Pipe	**m**									
	South Side		2	1.00	110.00			220.00			
	Ground Fencing		2	1.00	120.00			240.00			
	From Ground end to South Grill		2	2.00	45.00			180.00			
	Childern Play Ground		2	2.00	70.00			280.00			
	At Open Theater		2	2.00	45.00			180.00			
	Around Basket Ball Ground.		3	1.00	95.00			285.00			
	Basket Ball Ground and Tensile Roofing side		3	1.00	75.00			225.00			
								1610.00	432.48	**696292.80**	
	Basic Rate		408.00								
	Area Weightage @ 6%		24.48								
	Total		**432.48**								
44	KSRB 14.6-1: **Providing, Removing and Resetting of available heavy duty cobble stones 60mm thick** interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm jOints, final compaction of paver surface joints into its final level, includingthick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between labour and HOM of machineries complete as per specifications with all lead and lift , loading and unloading and allother incidental charges etc., complete machineries complete as per specifications. Specification No. KBS (P.No 103 of I.No.14.6 in PW,P&IWTD SR 2018-19)										
	Removing and Resetting of Cobble	Sqm									
	Footpath			1	75.00	2.50		187.50			
	Northside- East			1	60.00	2.50		150.00			
	Northside- West			1	110.00	2.50		275.00			
	East Side			1	135.00	2.50		337.50			
	South			1	131.00	2.50		327.50			
	West side			1	125.00	2.50		312.50			
	Main Gate to South Grill along Tensile Roofing			2	70.00	2.50		350.00			
	Childern Play Ground			2	45.00	2.50		225.00			
	At Open Theater							**2165.00**			
								-541.25			
	Consider 25% of Cobble Damaged							**1623.75**	575.89	**935093.72**	
	Basic Rate (a)		1053.00								
	Deduct Cobble stone rate (b)		-424.76								
	Deduct 10% of (b) Over Head charges (c)		-42.48								
	Deduct 10% of (b) Contractor Profit=(d)		-42.48								
	Arrived Rate		543.29								
	Area Weightage 6%		32.60								
	Final Rate		575.89								

45	sand for manufacture of blocks of approved size ,shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (Avg thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS (P.No 103 of I.No.14.6 in PW,P&IWTD SR 2018-19)									
	New Cobble	Sqm								
	Consider 25% of Cobble Damaged							541.25		
								541.25	1116.18	**604132.43**
	A.Basic rate		**1053.00**							
	B.Area Weightage 6%		**63.18**							
	Total		**1116.18**							
46	KSRRB M400-19: Construction of Median and island above road level with approved material deposited from borrowpits, spread, sloped and compacted as per Clause 400.7 complete as per specifications. MORTH Specification No.407 (P.No155 of I.No.20.20 in PW,P&IWTD SR 2018-19)									
	Earth Filling Below Cobble	Sqm								
	Consider 25% of Cobble Damaged			1	216.50	2.50	0.20	108.25		
								108.25	221.54	**23981.71**
	A.Basic rate		**209.00**							
	B.Area Weightage 6%		**12.54**							
	Total		**221.54**							
48	Removing and resetting of kerb stones(P.No.270, I.No.37.57 of PW,P&IWTD SR 2018-19)									
	R& R of Kerbs	m								
	Northside- East			2	75.00			150.00		
	Northside- West			2	60.00			120.00		
	East Side			2	110.00			220.00		
	South			2	135.00			270.00		
	West side			2	131.00			262.00		
	Main Gate to South Grill along Tensile Roofing			2	125.00			250.00		
	Childern Play Ground			4	70.00			280.00		
	At Open Theater			4	45.00			180.00		
	Consider 20% Missing and Damaged Kerbs							-346.40		
								1385.60	104.94	**145404.86**
	A.Basic rate		**99.00**							
	B.Area Weightage 6%		**5.94**							
	Total		**104.94**							
49	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. (P.No 27 of I.No.5.30 in PW,P&IWTD SR 2018-19)									
	New Kerbs	No.								
	for Damaged Kerbs			1	346.40	--	/0.45	770.00		
								770.00	432.48	**333009.60**
	Basic rate		**408.00**							
	Area Weightage 6%		**24.48**							
	Total		**432.48**							
50	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. litem no.24.1 of KPWD S.R Bangalore Circle 2018-2019)									
	Kerb Painting	Sqm								
	Northside- East			2.00	75.00		0.35	52.50		
	Northside- West			2.00	60.00		0.35	42.00		
	East Side			2.00	110.00		0.35	77.00		
	South			2.00	135.00		0.35	94.50		
	West side			2.00	131.00		0.35	91.70		
	Main Gate to South Grill along Tensile Roofing			2.00	125.00		0.35	87.50		
	Childern Play Ground			4.00	70.00		0.35	98.00		
	At Open Theater			4.00	45.00		0.35	63.00		
								606.20	84.80	**51405.76**
	A.Basic rate		**80.00**							
	B.Area Weightage 6%		**4.80**							
	Total		**84.80**							
	Electrical Work for Building									
51	Supplying and fixing of modular switch/socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 (Sl No.3.7.1 P No.16)									
	a) 6Amps one Way	Each								
			3.00	1.00	1.00			3.00		
								3.00	63.00	**189.00**
	Basic Rate Rs.=		63.00							
52	Supplying and fixing of modular switch/socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293-**6Amps 3way socket (Sl No.3.7.3 P No.16)**									
	6Amps 3way socket	Each								

			3.00	2.00	1.00			6.00		
	Basic Rate Rs.=		95.00					6.00	95.00	570.00
53	Supplying and fixing of modular switch/socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293-**6/16Amps universal socket (Sl No.3.7.10 P No16)**									
	6/16Amps universal socket	Each								
			3.00	1.00	1.00			3.00		
	Basic Rate Rs.=		147.00					3.00	147.00	441.00
54	Supplying following size heavy guage PVC conduit pipe and following thick confirming to IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary- **25mm dia 2mm thick (Sl No 1.2.2 P No.2)**									
	25mm dia 2mm thick	Mtr								
			3.00	1.00	30.00			90.00		
	Basic Rate Rs.=		57.00					90.00	57.00	5,130.00
55	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multisand Copper with low conductor resistance single core wire in open or consealed system of wiring with specified IS-694:1990 & confirming to GTP of Group-A.- **1.5sqmm (SL No 2.5.2 P No 6)**									
	1.5sqmm	Mtr								
			3.00	1.00	100.00			300.00		
	Basic Rate Rs.=		18.60					300.00	18.60	5,580.00
56	Supplying and fixing regular MCB distribution boards on wall/woodboard/flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with powder coated painting etc., Made out of 14SWG MS enclosure..- **8way SP &N-Single Door(Sl No 6.16.3 P No 47)**									
	8way SP &N-Single Door	Each								
			3.00	1.00	1.00			3.00		
	Basic Rate Rs.=		849.00					3.00	849.00	2,547.00
57	Supplying of 2' - LED PVC square batten 28Watts with high quality diffuser with life of 25000 burning hours & 70% lumen maintanance with CRI > 80. Power input: 220-240V @ 50Hz & power factor > 0.9 along with CE approved drivers. 5years warranty against any manufacturing defect working under standard electrical condition.**1x4'.28Watts (Sl No 4.29.2 P No-25)**									
	1x4'.28Watts- Bar Ligth	Each								
			3.00	1.00	2.00			6.00		
	Basic Rate Rs.=		1774.00					6.00	1774.00	10,644.00
58	Supplying of 2 pin/4pin 18W CFL lamp (Sl No 4.38.18 P No 30)									
	CFL Lamp	No's								
			3.00	1.00	4.00			12.00		
	Basic Rate Rs.=		120.00					12.00	120.00	1,440.00
59	Fixing one exhaust fan after making a suitable nitch in the wall and finishing with cement mortar and colouring to match the existing wall or rackets with bolts and nutsand a 5 amps, ceiling rose with sufficient length of 23/ 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame if required. (Sl No 17.11 P No 109)									
	Exhaust fan	Each								
			2.00	1.00	4.00			8.00		
	Basic Rate Rs.=		680.00					8.00	680.00	5,440.00
	Park Electrical work									
60	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II. (KPWD Ele SR 2014-15 I No 4.36.3, P No 27)									
	LED Street light 150 Watts	**No's**						**25.00**		
	Basic rate			**43000.00**				**25.00**	43000.00	**1075000.00**

61	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II. (KPWD Ele SR 2014-15 I No 4.36.4, P No 27)									
	LED Street light 180 Watts	**No's**						**6.00**		
								6.00	54000.00	**324000.00**
	Basic rate			**54000.00**						
62	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median.10Mt (5Mt Hb,165.1mm dia 4.85mm thick x3M Hm, 139.7mm dia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 47 (KPWD Ele SR 2014-15 I No 5.13.1.2, P No 34)									
	LED Street light 320 Watts	**Each**						**6.00**		
								6.00	19000.00	**114000.00**
	Basic rate			**19000.00**						
63	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 40x40x6mm (KPWD Ele SR 2014-15 I No 6.39.1 P No 49)									
	40x40x6mm	**Mtr**						**65.00**		
								65.00	263.00	**17095.00**
	Basic rate			**263.00**						
64	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. (KPWD Ele SR 2014-15 I No 6.40.2 P No 49)									
	16SWG	**Sq.cms**						**150000.00**		
								150000.00	0.33	**49500.00**
	Basic rate			**0.33**						
65	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE (KPWD Ele SR 2014-15 I No 6.13.B P No 46)									
	Four Pole 100Amps 25kA	**Each**						**3.00**		
								3.00	5809.00	**17427.00**
	Basic rate			**5809.00**						
66	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (KPWD Ele SR 2014-15 I No 6.16.1.B P No 47)									
	5-32Amps SP	**Each**						**18.00**		
								18.00	418.00	**7524.00**
	Basic rate			**418.00**						
67	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strips (except 2CX10Sq.mm wire armoured) as per IS-3975:1990 & extruded PVC outer sheathed armoured cable as per IS-1554 Part-1:1988 & confirming to GTP of GROUP-B. (KPWD Ele SR 2014-15 I No 7.4.5.B P No 55)									

	3.5 core 25 sqmm	**Mtr**						**400.00**		
								400.00	165.50	**66200.00**
	Basic rate			**165.50**						
68	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strips (except 2CX10Sq.mm wire armoured) as per IS-3975:1990 & extruded PVC outer sheathed armoured cable as per IS-1554 Part-1:1988 & confirming to GTP of GROUP-B. (KPWD Ele SR 2014-15 I No 7.4.6.B P No 56)									
	3.5 core 35 sqmm	**Mtr**						**100.00**		
								100.00	204.00	**20400.00**
	Basic rate			**204.00**						
69	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. (KPWD Ele SR 2014-15 I No 7.8.1 P No 61)									
	6 sqmm to 16 sqmm	**Mtr**						**700.00**		
								700.00	10.80	**7560.00**
	Basic rate			**10.80**						
70	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) (KPWD Ele SR 2014-15 I No 7.9.1.B P No 62)									
	In Soil ordinary	**Mtr**						**175.00**		
								175.00	78.00	**13650.00**
	Basic rate			**78.00**						
71	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) (KPWD Ele SR 2014-15 I No 7.9.4.B P No 62)									
	Asphalt cutting	**Mtr**						**20.00**		
								20.00	117.00	**2340.00**
	Basic rate			**117.00**						
72	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B. (KPWD Ele SR 2014-15 I No 2.6.1.B P No 6)									
	1sqmm	**Mtr**						**75.00**		
								75.00	10.75	**806.25**
	Basic rate			**10.75**						
73	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B. (KPWD Ele SR 2014-15 I No 2.6.2.B P No 6)									
	1.5 sqmm	**Mtr**						**350.00**		
								350.00	15.90	**5565.00**
	Basic rate			**15.90**						
74	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B. (KPWD Ele SR 2014-15 I No 2.6.4.B P No 6)									
	4 sqmm	**Mtr**						**15.00**		
								15.00	36.30	**544.50**
	Basic rate			**36.30**						
75	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.. (KPWD Ele SR 2014-15 I No 6.41.1.B P No 50)									
	4 sqmm	**Each**						**17.00**		
								17.00	2178.00	**37026.00**
	Basic rate			**2178.00**						

76	Providing Raiwater harvesting pits for Drains (						6.00		
	Rain Water Harvesting Pit	**No's**					6.00	22300.00	133800.00
	Data Rate			22300.00					
								Total Construction Cost of KPWD SR 2018-19 Items	13,280,921.88
								Total Construction Cost	15,071,540.63
77								**12% GST on KPWD 2018-19 items**	1,593,710.63
78								**Cost towards Preparation of DPR and PMC / Third Party inspection LS**	333,306.00
								Sub Total	16,998,557.26
79								**Miscellaneous and rounding off**	1,442.74
								Total	17,000,000.00
80									

Certificate.

1 The workspot was inspected and work is found to be necessary.
2 The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3 The rates adopted based on the PWD SR, Bangalore circle for year 2018-19, PWD SR Bangalore circle for year 2018-19 and PWD SR Bangalore circle for year KPWD Ele. SR 2014-15.
4 The provisions made in the estimate are necessary and essential.

For Tejus Consultants

Assistant Engineer

Assistant Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Executive Engineer

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

19/9/19

Approved by Major works committee
vide subject NO:- 16/2019-20 Dt: 07/02/2020

Administrative Approval
Accorded For Rs. 170.00 lakhs
Head of A/C..8.3590.....
CER NO :.....45..... Dt:.18/02/2020

EE (Project) 18/2

Technical Sanction
Accorded For Rs.170 lakhs already
Head of A/C..83590.....
CER NO :.....79..... Dt:20.09.2019

TA

CE (YNK)